SI REVIEW SHEET

SITE: W.A. Cleary Chemical Corp AKA: _____

CITY: Franklin Twp. COUNTY: Somerset

DATE SAMPLED: FROM 1986 TO 1988 EPA ID #: NJD002164457

SITE LEAD: ECRA SITE CONTACT Liz Matiset

SAMPLE MATRIX (# SAMPLES)		BACKGROUND SAMPLE (Y,N)	* SAMPLE PARAMETERS	* * QA/QC REVIEW (Y,N)	
SOIL	120	OFF SITE	yes	VOCs, metals, pesticides, herbicides	No	see comments
GW	27	UPGRADIENT	yes	VOA + 15 metals, pesticides	No -	see comments
SW	3	UPSTREAM	No-Lagoon	Mercury, Arsenic, Cadmium	No	

COMMENTS: From 1946 until present site produced agricultural chemicals including pesticides, herbicides, fungicides and coloration for Plant sprays. Site has extensive Soil and Groundwater contamination by arsenic, mercury and cadmium. To date, sludge and liner from lagoon removed along with top 1 foot of soil over 3 acres. * Sampling done according to NJDEP Protocols and ~~EPA~~ results accepted for basis of SI and site clean up

REVIEWER: Robert Raisch DATE: 3/3/89

* SPECIFY SAMPLE PARAMETERS: PP+40, HSL, TCL VO SCAN, METALS, ETC.

* * FORMAL QA/QC REVIEW BY NJDEP

642210

W.A. CLEARY CHEMICAL CORPORATION
1049 SOMERSET STREET
FRANKLIN TOWNSHIP, SOMERSET COUNTY, NEW JERSEY
EPA ID # NJD002164457

GENERAL INFORMATION AND SITE HISTORY:
The W.A. Cleary Chemical Corporation has been in operation at the facility located at 1049 Somerset Street in Franklin Township, Somerset County, New Jersey since 1946. The facility presently consists of four buildings on 136 acres of which 8 acres are used for manufacturing operations. The rest of property owned by the company has been developed as the Tara Greens Golf Course and Driving Range. W. A. Cleary produces food additives and agricultural chemicals including pesticides, herbicides, fungicides and green coloration for plant sprays.

Land use in the vicinity of the site is a mixture of residential, commercial and light industrial. North and east of the site are more densely populated areas of Somerset Boro and the City of New Brunswick. Land use to the south is predominantly commercial and light industrial with some residential areas. The area to the west of the site is also light industrial becoming more rural farther away from the site. The approximate population within a four mile radius of the site is 103,000.

SITE OPERATIONS:
Agricultural chemical manufacturing operations have been performed in the chemical plant since 1946 and in the area designated as "the still" during the period from 1946 to 1977. The still area was an open-walled, roofed structure which covered two manufacturing reactor systems. These systems were used in the production of phenylmercuric acetate (1946 to 1977), phenylmercuric oleate (1960 to 1965), mercuric napthenate (1960 to 1965) and disodium methyl arsonate (1968 to 1969). Upon completion of the reactor process, contents of the reactor systems were transferred to the chemical plant for further processing.

The plant area is an enclosed masonary building which was used for the filtration, drying and blending of solids in addition to its present use for blending and adjusting. Equipment in the chemical plant is/has been used for the manufacture of products made from the concentrated materials produced in the still and other agricultural chemicals from blending operations.

Cadmium oxide and nitric acid are charged to stainless steel drums which are agitated by a portable mixer located in an area between the still area and the chemical plant. After the addition of sodium chloride, the resulting cadmium chloride solution is transferred to the chemical plant for further processing. (See attachment C page, 3 for raw materials list).

Soil and groundwater contamination at the site has for the most part been attributed to operations in the still and chemical plant areas. Accidental spills of finished product and raw materials in the still area discharged to the immediate ground surface adjacent to the area. Spilled material from equipment housed in the chemical plant building was collected in a trough that discharged to an underground pipe which conveyed the waste to a clay lined chemical waste lagoon. A sink located in the quality control laboratory, also housed within the chemical plant, discharged to the

facility sanitary septic system until 1985, when the sink line was diverted to the chemical lagoon. The suspected presence of a second former lagoon located east of the still has been denied by company officials who claim that the area was just a depression that collected rain runoff from the still area roof. According to W. A. Cleary Officials, the heavy contamination of mercury found in this location is due to residuals washing from discarded mercuric oxide containers which were exposed to the weather.

GROUNDWATER ROUTE:

A. GEOLOGY/TOPOGRAPHY

Bedrock at the W. A. Cleary site is identified as Brunswick Shale of Triassic Age. The Brunswick Shale at the site consists primarily of interbedded, reddish mudstone and siltstone. The bedrock beds are generally inclined in a northwesterly direction at an average angle of 17 degrees. The depth to bedrock ranges from a few inches to 10 feet below the surface. Soils at the site are basically silt loams and silty clay loams that have a relatively low permeability.

B. HYDROGEOLOGY

The Brunswick Shale is a major water bearing aquifer in portions of northeastern and central New Jersey and is the main aquifer in Franklin Township. Joints and intersecting fractures provide the principal means of groundwater flow in the Brunswick Shale. The site has eleven shallow monitoring wells ranging in depth from 30 to 60 feet and six deep monitoring wells ranging in depth from 72 to 335 feet below the surface. Monitoring well data from the site indicates that the Brunswick Shale is divided into two aquifers. Groundwater in the shallow aquifer is under water table conditions and is encountered at depths ranging from 4 to 22 feet below the surface. Ground water in the deeper bedrock is encountered at depths of 18 to 30 feet below grade. Groundwater flow in the shallow aquifer is radially away from a mound in the hydraulic gradient that is present beneath the area of the still and the chemical plant. Tests indicate the mound is related to localized high topography, since surface waters present in the area (the well water pond, ponded water near the former chemical lagoon and other excavations) do not appear to be a major contributing source to the groundwater mound. Groundwater in the deeper bedrock flows to the southeast.

Monitoring well sampling analyses dating to 1983 have shown groundwater at the site to be contaminated with arsenic, volatile organics and pesticides. Sampling results, contained in a hydrogeologic and soil investigation completed by Dan Raviv Associates, W. A. Cleary's environmental contractor in 1987, show that shallow monitoring well No's 3s, 5, 6, and 7 have the highest contamination levels. Substances found in these wells are as follows: arsenic (3040 ppb), benzene (820,000 ppb), carbon tetrachloride (3,400,000 ppb), chloroform (6000 ppb) and 2,4-D (5,200 ppb). Similar contaminants are found at lower concentrations in samples collected from the deeper monitoring wells.

Groundwater in the site area is utilized for potable and industrial purposes. NJDEP, Division of Water Resources well records indicate that several industrial wells and approximtely 335 private domestic

wells are located within a 4 mile radius of the site. Most wells within the site area are screened in the deeper Brunswick Formation aquifer.

One municipal well, owned by the Middlesex Water Company, is located approximately 3 miles northwest of the site and is screened at a depth of 351 feet, also in the Brunswick Formation.

SURFACE WATER ROUTE:
Wastewater from the food additive building, consisting primarily of vegetable oils and lecithins, is intermitantly discharged to the Mile Run via NJPDES Discharge to Surface Water Permit No. NJ0003816. Mile Run in turn flows into the Raritan River approximately three miles from the site. The permitted discharge is through three "settling ponds," consisting of one underground cinder block tank used to digest vegetable oils, one bentonite lined lagoon and one unlined lagoon. The two lagoons are located on the golf course and, with the tank, are connected in series by ditches and underground pipes.

Non-recyclable wash water from the agricultural chemical plant was discharged to a clay lined chemical lagoon which was closed in accordance with the company's NJPDES permit in 1986. The 8000 square foot chemical lagoon was subject to overflowing and has been alleged to be responsible for much of the soil contamination at the site. The closure of the chemical lagoon included the removal of all wastewater, sludge and its clay lining along with the top one foot of soil which was excavated from an area of over 3 acres.

The site is located on the divide between land that drains toward Mile Run and land that drains toward a tributary of Six Mile Run which flows into the Millstone River. The Millstone converges with the Raritan River several miles upstream of its confluence with Mile Run. Documentation indicates that surface runoff and overflow from the settling ponds and, previously, the chemical lagoon would flow south toward the tributary of Six Mile Run which is approximately one half mile from the site. The North Brunswick Water Department has a surface water intake on the Millstone River-Delaware Raritan Canal upstream of the Six Mile Run convergence point. There is no potential for contamination of surface drinking water. The Raritan River and Millstone River are also both utilized for recreational fishing and in some places swimming, even though no areas are officially designated for that purpose. The nearest wetlands to the site are located along the Six Mile Run approximately 1.5 miles from the site. Sediment samples taken from a stream which flows through the Tara Greens Golf Course and discharges to Mile Run revealed contamination by arsenic (47 ppm), cadmium (2.9 ppm) mercury (6.1 ppm) and volatile organic compounds (0.97 ppm total).

AIR ROUTE:
Documentation indicates that during the manufacture of phenylmercuric acetate, (PMA) approximately 5.75 pounds of benzene were lost to evaporation per hour. W. A. Cleary discontinued making PMA in 1981. Presently the company has no air pollution permits related to the chemical manufacturing part of the facility. Currently there is a potential for contamination of air if contaminated soils are disturbed.

SOILS:
Extensive sampling at the site by NJDEP and Dan Raviv Associates Inc., W. A. Cleary's consulting firm, has shown soils at the site to be contaminated with arsenic (up to 950 ppm), cadmium (up to 250 ppm), mercury (up to 110,000 ppm) and volatile organic compounds (up to 1.93 ppm total VOC). Areas having the highest levels of contamination were south and east of the still. Approximately 3 acres of contaminated soil around the lagoon and the still were removed to a depth of 1 foot and manifested for offsite disposal. However, contamination levels exceeding NJDEP standards exists down to bedrock at 8 feet. Additional sampling and removal of contaminated site soils is scheduled. Other areas of the site that have been shown to be contaminated by the arsenic, cadmium and mercury at lower concentrations are the septic pit, the stream running through the golf course and the golf course itself. Sampling conducted during a National Dioxin Study in 1984 revealed one area that is contaminated by dioxin at a concentration of 35 ppb.

DIRECT CONTACT:
The site property, including the Tara Green Golf Course, is not secured by fencing. A potential for direct contact exists due to public access to areas that are contaminated.

FIRE AND EXPLOSION:
Due to the nature of some of the materials used in the manufacturing process, a potential for fire and explosion exists.

WORKER EXPOSURE/INJURY:
A 1982 OSHA report states that workers were exposed to Thiram, an active ingredient of fungicides. Due to the high levels of contamination at the site, it is likely that additional worker exposure had occurred.

OTHER CONSIDERATIONS:
Flora and fauna in downgradient surface waters may be impacted by contaminants from the site. Due to the high levels of mercury found at the site, there is a potential for contamination of the food chain.

Unstable containment of waste had been observed during a NJDEP site inspection in 1980. Soil samples collected at that time from around the chemical lagoon, which showed evidence of overflowing, revealed contamination by arsenic, cadmium and mercury.

ENFORCEMENT ACTIONS:
In accordance to a NJDEP/Division of Water Resources Consent Order signed in 1982, an extensive soil and groundwater remedial investigation program and site cleanup was implemented by W. A. Cleary and continues at this time. To date, in addition to soil and groundwater sampling, all wastewater, sludge and the clay lining from the chemical lagoon have been removed from the site. Contaminated soil down to a depth of 1 foot has also been removed from an approximately 3 acre area around the lagoon and still. The lead agencies for the site have been the NJDEP Division of Water Resources, Bureau of Ground Water Quality Management and the NJDEP DWR Northern Regional Enforcement Office. At the time of this writing, W. A. Cleary has also come under the jurisdiction of ECRA due to the intended sale of part of the site property.

SUMMARY OF SITE INVESTIGATION AND SAMPLING DATA

Site investigations conducted by Dan Raviv Associates Inc., beginning in 1986, have included sampling of soil, stream sediments and groundwater. Field activities included an integrated program of geologic, hydrologic and chemical investigations. Prior sampling episodes conducted by NJDEP in 1981 and 1983 included sampling of onsite lagoons, effluent runoff, site production wells, monitoring wells and eight off-site private wells. NJDEP samples were analyzed at the NJ Department of Health Chemistry Laboratory. Site sampling by Dan Raviv Associates was conducted according to plans that were approved by NJDEP Division of Water Resources. Dan Raviv samples were sent to Princeton Testing Laboratory, NJ Lab ID. No. 11118; NJ Laboratories, NJ Lab ID. No. 12128; and S-R Analytical Inc., (Analytikem), NJ Lab ID. No. 04012. Field and laboratory QA/QC procedures that were followed are summerized in the Dan Raviv Associates hydrogeologic investigation and sampling reports. A formal QA/QC review by DEP of the analytical results has not been completed at this time. A summary of the existing sampling data is outlined below:

SUMMARY OF SAMPLING DATA:

1. Sampling date: May 5, 1981
   Sampled by: NJDEP/DWR
   Samples: Three (3) surface water
   Two (2) site wells
   Eight (8) offsite private potable wells and industrial wells.
   Laboratory: NJ Dept. of Health Environmental Chemistry Laboratory.
   Parameters: Mercury, Arsenic, Cadmium
   Sample description: One water sample was collected from each of the following locations:

   1. W.A. Cleary lagoon-taken from middle of lagoon
   2. W.A. Cleary production well-from well head
   3. W.A. Cleary runoff and effluent ditch
   4. W.A. Cleary dug well
   5. Phillips offsite industrial well-250 feet deep
   6. Gilbert Plastics-offsite industrial well
   7. Six private residential wells

   Contaminants detected:

	As	Cd	Hg (in ppb)
Lagoon	11,673	149	40.0
Production	123	27	18.0
Runoff and effluent ditch	276	21	9.0
Dug well	9	1	.6
Phillips well	14	1	.5
Gilbert Plastics	18	1	.5
FOIA Exempt (b)(6)	9	1	.5
	2	1	.5
	3	1	.5
	4	1	.5
	4		.5

   QA/QC: Chain of Custody attached to results. No other information found in documentation.

2. Sampling date: April 14, 1983
   Sampled by: NJDEP
   Samples: Seven (7) ground water samples
   Laboratory: NJ Dept. of Health Environmental Chemistry Laboratory.
   Parameters: Metals, suspended solids, pesticides, volatile organics.
   Sample description: Groundwater samples were collected from seven on site monitoring wells. All wells are screened in the Brunswick Shale aquifer on range from 30 to 60 feet in depth. (See attachment for locations).

Contaminants detected: Highest contamination levels were found Monitoring Well Nos. 3 and 5 which are located near the old chemical lagoon and Monitoring Well Nos. 6 and 7 which are downgradient of still area. The principal contaminants detected at the site are summerized on table 1.

Contaminants (ppb)	MW# 3	MW# 5	MW# 6	MW# 7
Metals				
arsenic	391	3215	114	54
cadmium	72	161	88	1
mercury	11	3.2	0.7	0.6
Pesticides				
chlordane	ND	2.11	ND	ND
Volatile Organics				
benzene	760	3100	36,000	19,000
bromobenzene	230	ND	ND	ND
2,3-benzofuran	110	37	ND	ND
carbon tetrachloride	93,000	70	26	ND
choroform	18,000	6	4	ND
cumene	ND	9	ND	ND
cyclopropylbenzene	62	65	ND	ND
ethylbenzene	35	22	ND	7
hexachlorobutadiene	ND	30	64	ND
ethylene chloride	36	ND	ND	ND
napthalene	ND	11	2	2
tetrachloroethylene	210	ND	ND	ND
toluene	70	4	3	ND
1,2,4-trimethybenzene	160	130	ND	16
m-xylene	100	10	ND	ND
o-xylene	53	13	4	ND
p-xylene	34	9	ND	3

QA/QC: Chain of Custody and blank number attached to results. VO sample from Monitoring Well No. 6 had air bubble. Other QA/QC documentation not found.

From 1986 to 1988 Dan Raviv Associates Inc. (DRAI), a consulting firm hired by W.A. Cleary, completed a hydrogeologic and soils investigation for the site. The following is a summary of the DRAI report which has been submitted to NJDEP, Division of Water Resources for review:

3. Sampling date: October 15 and 16, 1986
   Sampled by: DRAI
   Samples: Fourteen groundwater samples collected from twelve (12) monitoring wells.
   Laboratory: Princeton Testing Laboratory, Princeton, NJ for VOA & 15. NJ Laboratories, New Brunswick, NJ for metals and suspended solids.
   Parameters: Volatile Organics & 15, metals.

Sample description: The 12 monitoring wells were sampled (see attachment A for location) within two hours after evacuation except for repeat sampling of Monitoring Wells Nos. 3S and 3D where samples were collected 24 hours after pumping. Of the 16 samples, 15 were analyzed for metals and 15 were analyzed for VOC's (3SB, duplicate of 3SA, was not analyzed for metals; 3DB, duplicate of 3DA, was not analyzed for VOC's). All water samples for metal analysis were filtered.

Contaminants detected: Arsenic levels ranged from 10 to 3,040 ppb. Cadmium and mercury levels were measured at less than 0.5 ppb for all samples. Total VOC levels ranged from ND to 3,400,000 ppb. Wells having the highest concentration levels are shown below:

Contaminant (ppb)	MW# 3s	MW# 5	MW# 6	MW# 7
Metals				
arsenic	<10	3,040	1,190	300
cadmium	<5	<5	<5	<5
mercury	<0.5	<0.5	<0.5	<0.5
Volatile Organics				
benzene	ND	ND	820,000	200,000
carbon tetrachloride	3,400,000	ND	ND	ND
chloroform	6,000	ND	ND	ND
ethylbenzene	ND	7	ND	Nd

QA/QC: According to DRAI's report, all ground water sampling was performed in accordance to NJDEP protocols. A Chain of Custody was followed and analysis were conducted according to approved EPA methods. Field and trip blanks were utilized. A formal QA/QC review by NJDEP has not been completed at the time of this writing.

4. Sampling date: January 13 and 14, 1987
Sampled by: DRAI
Samples: Thirteen (13) ground water samples were collected from twelve (12) monitoring wells.
Laboratory: S-R Analytical Inc. (AnalytiKEM) Cherry Hill, NJ.
Parameters: All thirteen samples were analyzed for metals and VOC's. Seven samples were analyzed for pesticides.

Sample description: Monitoring Well 3s, 3D, 5, 6 and 8 were sample for pesticides in addition to metals and VOC's. (See attachment page for well depths and locations.

Contaminants detected: Metals detected in the samples were at similar levels as the October 1986 result shown above. VOC's detected were the same as found during the October 1986 sampling but generally at lower concentrations. The results of the pesticide analysis are summerized below:

Pesticide (ppb)	MW# 3s	MW# 3D	MW# 5	MW# 6	MW#8
2,4-D	5,200	1,600	2,000	40	ND
dieldrin	ND	ND	1.3	ND	ND
endosulfan II	2.2	ND	ND	ND	ND

QA/QC: As discussed for October 1986 sampling and analysis.

Soils

5. Sampling dates: January through March 1987
Sampled by: DRAI
Samples: 120 soil samples
Laboratory: S-R Analytical Inc., (AnalytiKEM) Cherry Hill, NJ.
Parameters: metals, pesticides, herbicides, VOCs
Sample description:

1. Fifteen (15) soil samples collected from various locations at depths of 0 to 4 feet (see attachment A Fig. 5).

2. Sixty-Six (66) soil samples collected at depths of 0 to 8 feet at various locations (see attachment A Fig. 6).

3. Samples were collected from the septic tank pit (4), the stream it feeds (6) and the eastern edge of the unlined lagoon which is fed by the stream (3). Depths ranged from the surface to 7.5 feet. (See attachment A Fig. 7).

4. Twenty-six (26) samples were collected from random borings located throughout the Tara Greens Golf Course. Sampling depths ranged from the surface to 3 feet. (See attachment A Fig. 8).

Contaminants detected:

Soil samples collected from the W.A. Cleary Site which includes the Tara Greens Golf Course revealed contamination by arsenic (1.9 to 950 ppm), cadmium (ND to 250 ppm) and mercury (ND to 110,000 ppm). Total volatile organic compounds ranged from (ND to 1.4 ppm). Pesticides were none detected (ND) for all samples for which they were analyzed for. Soil samples having the highest contamination levels are summerized below:

Sample No-Depth (ft)	Location	Arsenic	Cadmium	Mercury	VOC
WAC - 70 1	east of still	870	250	25,000	NT
WAC - 70 2	east of still	340	11	19,000	NT
WAC - 70 3	east of still	330	21	360	1.93
WAC - 91 4	east of still	290	55	110,000	NT
WAC - 91 5	east of still	210	1.1	9,000	NT
WAC - 91 7	east of still	240	ND	4,100	NT
WAC - 95 1	south of still	950	31	200	NT
WAC - 111 1	septic pit	10	20	30	NT
WAC - 112 5	septic pit	240	1.3	4.6	NT
WAC - 82 1	stream sediments	47	2.9	6.1	0.94
WAC - 117 1A	golf course	6.8	2.2	2.3	NT
WAC - 66 3	east of plant area	2.3	ND	0.9	1.40

NT = Not tested for
ND = None detected

QA/QC:

According to DRAI's report, all soil sampling was performed in accordance to NJDEP protocols. A Chain of Custody was followed and analysis were conducted according to approved EPA methods. Field and trip blanks were utilized. A formal QA/QC review by NJDEP has not been completed at the time of this writing.

RECOMMENDATIONS:

Based on the findings of the Preliminary Assessment, the W.A. Cleary site was assigned a high priority. Extensive sampling has been conducted and remediation is under way in compliance with a Administrative Concent Order (ACO) signed between W.A. Cleary and NJDEP, Division of Water Resources. Further sampling and cleanup of the site has been occurring under the provisions of ECRA. The sampling data and other documentation that was reviewed confirms the presence of pesticides, heavy metals, and volatile organic compounds in soil and groundwater at the site. Sampling by the

Bureau of Planning and Assessment is not warranted at this time. All data is on file at NJDEP, Bureau of Environmental Cleanup Responsibility Assessment.

Prepared by:

Robert Raisch, HSMS III
NJDEP Bureau of Planning and Assessment
March 1989

Hours: 65

Site Inspection Report

W.A. CLEARY CHEMICAL CORPORATION
1049 SOMERSET STREET
FRANKLIN TOWNSHIP, SOMERSET COUNTY, N.J.
EPA ID# NJD002164457

HOURS: 65

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

EPA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NJ	D002164457

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
W.A. Cleary Chemical Corporation	1049 Somerset Street				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG. DIST**
Franklin Township	NJ	08873	Somerset	18	

09 COORDINATES	10 TYPE OF OWNERSHIP (Check one)
LATITUDE 40° 28' 47" — LONGITUDE 24° 29' 17"	☐ A. PRIVATE ☐ B. FEDERAL _____ ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER _____ ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
1986-1989 (MONTH DAY YEAR)	☐ ACTIVE ☐ INACTIVE	1946 (BEGINNING YEAR) — Present (ENDING YEAR) — ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR _____ (Name of firm) ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
☐ E. STATE ☐ F. STATE CONTRACTOR _____ (Name of firm) ☒ G. OTHER Owners Contractor (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Site Inspection Review			( )

09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
			( )
			( )
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☐ PERMISSION ☐ WARRANT		

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Elizabeth Mataset	NJDEP/BEECRA	609 633-7141

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Robert Raisch	NJDEP	BPA	609-984-3239	03 / 08 / 89 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NJ	D002164457

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- [x] A. SOLID
- [x] B. POWDER, FINES
- [ ] C. SLUDGE
- [ ] D. OTHER (Specify)
- [ ] E. SLURRY
- [x] F. LIQUID
- [ ] G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

- TONS: unknown
- CUBIC YARDS: unknown
- NO. OF DRUMS: unknown

03 WASTE CHARACTERISTICS (Check all that apply)

- [x] A. TOXIC
- [ ] B. CORROSIVE
- [ ] C. RADIOACTIVE
- [x] D. PERSISTENT
- [ ] E. SOLUBLE
- [ ] F. INFECTIOUS
- [x] G. FLAMMABLE
- [ ] H. IGNITABLE
- [x] I. HIGHLY VOLATILE
- [ ] J. EXPLOSIVE
- [ ] K. REACTIVE
- [ ] L. INCOMPATIBLE
- [ ] M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			Soil and groundwater
SOL	SOLVENTS	unknown		contamination is result
PSD	PESTICIDES	unknown		of unknown quantity of
OCC	OTHER ORGANIC CHEMICALS	unknown		waste into lagoon.
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	unknown		

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	benzene	71-43-2	Groundwater contaminants	820,000	ppb
SOL	carbon tetrachloride	56-23-5	(Highest concents.)	3,400,000	ppb
SOL	chloroform	67-66-3		6,000	ppb
SOL	ethylbenzene	100-41-4		7	ppb
PSD	2,4-D	94-11-1		5,200	ppb
MES	argenic	7440-38-2		3,400	ppb
MES	arsenic	7440-38-2	Soil Contaminants	870,000	ppm
MES	cadmium	7440-42-9	(Highest Concents)	250,000	ppm
MES	mercury	7439-97-6		110,000,000	ppm
PSD	2,3,7,8-TCDD (Dioxin)	1746-01-6		37	ppm

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Attachment A Hydrogeologic and Soil Investigation, April 1987 NJDEP/DWR/NBFO
Attachment G EPA National Dioxin Study Results for W.A. Cleary NJDEP/DWM/BEECRA

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NJ	D002164457

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. GROUNDWATER CONTAMINATION
02 [X] OBSERVED (DATE: 10/9/83) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
Numerous samples collected and analyzed during the period of 1981 to 1987, confirm the presence of arsenic, cadmium, mercury, benzene, carbon tetrachloride and pesticides in the groundwater at the site.
(Attachments A,H,I,K,L)

01 [X] B. SURFACE WATER CONTAMINATION
02 ☐ OBSERVED (DATE: 5/13/81) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
Surface water samples collected from W.A. Cleary runoff and effluent ditch were found to be contaminated with arsenic, cadmium and mercury.
(Attachment J)

01 [X] C. CONTAMINATION OF AIR
02 ☐ OBSERVED (DATE: 1981) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
Documentation indicates that 5.5 pounds of benzene were lost to evaporation per hour during reaction processess used to produce phenylmercuric acetate. (Attachment M)

01 [X] D. FIRE/EXPLOSIVE CONDITIONS
02 ☐ OBSERVED (DATE: _____) [X] POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
There is a potential for fire or explosive conditions to exists due to the nature of materials used in manufacturing processes at the site.
(Attachment A,C)

01 [X] E. DIRECT CONTACT
02 ☐ OBSERVED (DATE: _____) [X] POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
There is a potential for direct contact contaminated soils, contents of lagoons and production areas due to inadequate site security.
(Attachment O)

01 [X] F. CONTAMINATION OF SOIL
02 [X] OBSERVED (DATE: 1/31/79) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: _____ (Acres)
04 NARRATIVE DESCRIPTION
Numerous samples collected and analyzed during the period of 1979 to 1987 confirm that the soil at the site is extensively contaminated with arsenic, cadmium and mercury. (Attachments A,H,I,K,L)

01 [X] G. DRINKING WATER CONTAMINATION
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL [X] ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
Sampling of 5 residental wells located near the site in 1981 revealed arsenic concentrations ranging from 2.0 to 9.0 ppb. W.A. Cleary site is suspected source of contamination. (Attachment J)

01 [X] H. WORKER EXPOSURE/INJURY
02 [X] OBSERVED (DATE: 11/1/82) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
A 1982 OSHA report states that workers were exposed to Thiram, an active ingredient in fungicides, when charging reactor vessels.
(Attachment N)

01 [X] I. POPULATION EXPOSURE/INJURY
02 ☐ OBSERVED (DATE: _____) [X] POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____
04 NARRATIVE DESCRIPTION
Population may have been exposed via contaminated drinking water.
(Attachment J)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NJ	D002164457

II. HAZARDOUS CONDITIONS AND INCIDENTS (continued)

01 ☒ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

There is a potential for contaminants and materials on site, which include herbicides, to impact on flora.

(Attachment A)

01 ☒ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include species affected)

There is a potential for contaminants that may reach surface water to impact on Fauna.

(Attachment A)

01 ☒ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

There is a potential for contamination of the food chain due to the high levels of mercury contamination found at the site.

(Attachment A,C)

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES — 02 ☒ OBSERVED (DATE 9/19/80) — ☐ POTENTIAL — ☐ ALLEGED
(Spills, Runoff, Standing liquids, Leaking containers)
03 POPULATION POTENTIALLY AFFECTED _____ 04 NARRATIVE DESCRIPTION

A DEP-DWR Administrative Consent Order states that the chemical lagoon is undersized and subject to overflowing.

(Attachment H)

01 ☒ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE _____) — ☒ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

There is a potential for contaminants found in drainage and effluent ditches on site to migrate offsite.

(Attachments A & L)

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE _____) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

No evidence was found in the documentation to indicate a potential for contamination of sewers, storm drains or WWTPs.

01 ☒ P. ILLEGAL UNAUTHORIZED DUMPING — 02 ☒ OBSERVED (DATE: 12/18/1979) — ☐ POTENTIAL — ☐ ALLEGED
04 NARRATIVE DESCRIPTION

During a 1979 NJDEP site inspection, several piles of trash used drums from product lines and an oily tarry substance were observed in a wooded area of the property. (Attachment H)

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

A dioxin study of the site conducted by EPA in 1984 revealed one soil sample that was contaminated with dioxin at a concentration of 35 ppb.

(Attachment G)

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Attachments A,I,J,K & L - NJDEP/DWR/NBFO
Attachment C - NJDEP/DWM/BEERCA
Attachment N - NJDEP/DWM/BPA
Attachment G - NJDEP/BEERA

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NJ	D002164457

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPDES	NJ0003816	1/30/76		Surface Water Discharge EPA
☐ B. UIC				
☐ C. AIR	35110			2 stacks-one is for boiler
☐ D. RCRA				
☐ E. RCRA INTERIM STATUS				
☐ F. SPCC PLAN				
☐ G. STATE (Specify)				
☐ H. LOCAL (Specify)				
☐ I. OTHER (Specify)				
☐ J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☒ A. SURFACE IMPOUNDMENT	unknown	
☐ B. PILES		
☒ C. DRUMS, ABOVE GROUND	unknown	
☐ D. TANK, ABOVE GROUND		
☐ E. TANK, BELOW GROUND		
☐ F. LANDFILL		
☐ G. LANDFARM		
☐ H. OPEN DUMP		
☐ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)

- ☐ A. INCENERATION
- ☐ B. UNDERGROUND INJECTION
- ☐ C. CHEMICAL/PHYSICAL
- ☐ D. BIOLOGICAL
- ☐ E. WASTE OIL PROCESSING
- ☐ F. SOLVENT RECOVERY
- ☐ G. OTHER RECYCLING/RECOVERY
- ☐ H. OTHER (Specify)

05 OTHER

☐ A. BUILDINGS ON SITE (4)

06 AREA OF SITE

138 (Acres)

07 COMMENTS

The facility used a approximately 8000 sq. ft. chemical lagoon which was subject to overflowing. During a 1979 NJDEP site inspection, drums were found discarded in a wooded area and also noted to be stored haphazardly in the drum storage area.

(Attachment C,H)

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☐ C. INADEQUATE, POOR ☒ D. INSECURE, UNSOUND, DANGEROUS unsound run on diversion

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

The chemical lagoon had a clay liner but was subject to overflowing allowing soils to become contaminated. During a 1979, NJDEP site inspection rusted and leaking drums were noted.

(Attachments A,C & H)

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE ☒ YES ☐ NO

02 COMMENTS

Contaminated and production areas are accessible due to inadiquate site security.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

Attachments A & H - NJDEP/DWR/NBFO
Attachments C NJDEP/DWR/BEERCA

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NJ	D002164457

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)	SURFACE	WELL	02 STATUS	ENDANGERED	AFFECTED	MONITORED	03 DISTANCE TO SITE
COMMUNITY	A. ☐	B. ☒		A. ☒	B. ☐	C. ☐	A. 3.1 (mi)
NON-COMMUNITY	C. ☐	D. ☒		D. ☒	E. ☐	F. ☐	B. 0.35 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☒ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL IRRIGATION (No other water sources available) ☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER	03 DISTANCE TO NEAREST DRINKING WATER WELL
1273	0.33 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
4 (ft)	S. East	18 (ft)	(gpd)	☒ YES ☐ NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

Groundwater in the site area is used for potable and industrial purposes. Well lo s indicate that there are approximately 335 private wells located within 4 miles of the site.

10 RECHARGE AREA		11 DISCHARGE AREA	
☒ YES ☐ NO	COMMENTS: Contamination of shallow and deep aquifers at the site indicate area of recharge.	☐ YES ☒ NO	COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION, DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Mile Run Raritan River	☐	0.25 + 3.0 (mi)
Six Mile Run Millstone River	☐	0.5 + 4.0 (mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN			02 DISTANCE TO NEAREST POPULATION
ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	~~THREE~~ Four (4) (3) MILES OF SITE	
A. Approx. 2500 NO. OF PERSONS	B. NO. OF PERSONS	C. 103000 NO. OF PERSONS	0.33 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE	04 DISTANCE TO NEAREST OFF-SITE BUILDING
Several hundred	0.25 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

Land use in the vicinity of the site is a mixture residential commerical and light industrial. North and east of the site are more densely populated areas of Sumerset Boro and the City of New Brunswick. Areas south and west of the site, are mostly light industrial becoming rural moving farther from the site. The population within a four mile radius of the site is approximately 103,000.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NJ	D002164457

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☒ A. 10^{-6} – 10^{-8} cm/sec ☐ B. 10^{-4} – 10^{-6} cm/sec ☐ C. 10^{-4} – 10^{-3} cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE (10^{-4} – 10^{-6} cm/sec) ☒ C. RELATIVELY PERMEABLE (10^{-2} – 10^{-4} cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
0 to 10 (ft)	0 to 10 (ft)		

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
12 (in)	2.5 (in)	1.0 %	East & West	1.0 %

09 FLOOD POTENTIAL

SITE IS IN NA YEAR FLOODPLAIN

10

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

NA

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

A NONE (mi)

OTHER freshwater marsh

B Approx. 1.5 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

_____ (mi) NONE

ENDANGERED SPECIES _____

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS: PRIME AG LAND	AG LAND
A 0.25 (mi)	B 0.33 (mi)	C NONE (mi)	Approx. 1.5 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The approximately 136-acre site in Franklin Township is bordered on the southeast by Route 27, on the north by the NJ R.R., on the north and west by woods and on the south by a commercial property. About 8 acres in the southwest portion of the site are used for the manufacturing facility. The remainder of the site is developed as the Tara Greens Golf Course.

The site is located on a divide between land that drains toward Mile Run and land that drains toward a tributary of Six Mile Run. Site elevations range from approximately 120 to 130 MSL.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NJDEP/DWR Water Allocation & Well Logs
Attachment B - NJDEP/DWM/BEERCA

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NJ	D002164457

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	27	S-R Analytical Cherry Hill, NJ	1987
SURFACE WATER	3	NJ Dept. of Health Lab.	1981
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	120	S-R Analytical Cherry Hill, NJ	1987
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☐ GROUND ☐ AERIAL

02 IN CUSTODY OF _____ (Name of organization or individual)

03 MAPS ☑ YES ☐ NO

04 LOCATION OF MAPS: NJDEP-Bureau of Groundwater Quality Management

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Attachments A,C, & J NJDEP/DWR/NBFO
Attachment B NJDEP/DWM/BEERCA

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NJ	D002164457

II. CURRENT OWNER(S) / PARENT COMPANY (if applicable)

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
W.A. Cleary	00-216-4457		

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
P.O. Box 10	2075		

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
Somerset	NJ	08873			

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first) / IV. REALTY OWNER(S) (If applicable, list most recent first)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

NJDEP Information Resource Center

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NJ	D002164457

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

NJDEP Information Resource Center

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NJ	D002164457

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE / 07 ZIP CODE	

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
NA			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
NA			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

V. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NJ	D002164457

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

01 ☐ D. SPILLED MATERIAL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

01 ☐ E. CONTAMINATED SOIL REMOVED — 02 DATE 1987 — 03 AGENCY ~~NJDEP/DWR~~
04 DESCRIPTION Contaminated soil down to a depth of one foot has been removed from an approximate area of three acres.

01 ☐ F. WASTE REPACKAGED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

01 ☐ G. WASTE DISPOSED ELSEWHERE — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

01 ☐ H. ON SITE BURIAL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

01 ☐ L. ENCAPSULATION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

01 ☐ N. CUTOFF WALLS — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

01 ☐ P. CUTOFF TRENCHES/SUMP — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NJ	D002164457

II PAST RESPONSE ACTIVITIES *Continued*

01 ☐ R. BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

01 ☐ S. CAPPING COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

01 ☐ T. BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

01 ☐ U. GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

01 ☐ V. BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

01 ☐ W. GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

01 ☐ X. FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

01 ☐ Y. LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

01 ☐ Z. AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

01 ☐ 1. ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

01 ☐ 2. POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

01 ☐ 3. OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION
NONE

III. SOURCES OF INFORMATION *(Cite specific references e g state files sample analysis, reports)*

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NJ	D002164457

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

In accordance to a NJDEP/Division of Water Resources Consent signed in 1982, an extensive soil and groundwater remedial investigation program and site cleanup was implemented by W.A. Cleary and continues at this time. To date, in addition to soil and groundwater sampling, all wastewater, sludge and th clay lining from the chemical lagoon have been removed from the site. Contaminated soil down to a depth of one foot has also been removed from an approximately three acre area around the lagoon and still. The lead agencies for the site have been the NJDEP Division of Water Resources, Bureau of Ground Water Quality Management and the NJDEP DWR Northern Regional Enforcement Office. At the time of this writing, W.A. Cleary has also come under the jurisdiction of ECRA due to the intended sale of part of the site property.

III. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

Attachments A,E & H NJDEP/DWR/NBFO

EPA FORM 2070-13 (7-81)

WA Cleary
Assigned 11/20/87
On Hold 12/15/87
Restarted 4/21/88

BUREAU OF PLANNING AND ASSESSMENT
FILE/DATA CHECK SHEET
Developed by NJDEP DHWM/BPA 1/14/1988

Agency	Phone No.	Contact	Date	File Y/N	Reviewed
N.J. DEP Div. Water Resources					
A. Central File	(609)292-0400		11/30/87	Y	Y
B. Regional Enforcement Office.	201-299-7592	Mary Fletcher	11/30/87 5/10/88	Y	Y
C. Geological Survey	(609)292-0668		11/30/87	n	n
D. Water Allocation (well logs) (radius program)	(609)984-6831 (609)292-2957	Susan Scarr			✓ ✓
E. Groundwater Quality Mgt.	(609)292-0424	~~[illegible]~~ George Cambell	12/3/87 5/10/88	Y	Y
F. Indust. Waste Mgt. (NJPDES permits)	(609)292-4860				
G. Other	____________				
Div. Waste Management					
A. Regional Enforcement Office	201-299-7570	Inactive File	6/8/88	y	y
B. Case Management	(609)633-0701				
C. ECRA	(609)633-7141	Liz Matiset	7/18/88 ~~[illegible]~~	yes ~~A~~	yes ~~A~~
D. Haz. Waste Eng.	(609)292-9880				
E. Other	____________				
Div. Env. Quality		2 stacks 880582 + [illegible] [illegible] #1299 [illegible]			[illegible]
A. Reg. Air Pollution Control Office	201-299-7700	John Walsh	5/2/88	Y	
B. Office of Quality Assurance	(609)292-3950				
C. Other B. Pesticide Control	(609) ~~530-[illegible]~~ 530-4139	John Pitonyak	4/29/88	Y	Y
Div. Solid Waste Mgt.					
A. File Room	(609)292-0112				
B. Enforcement Office	(609)426-0791				
C. Solid Waste Eng.	(609)292-7875				

Agency	Phone No.	Contact	Date	File Y/N Reviewed	
Div. Hazardous Site Mitigation					
A. Central File	(609) 292-3209				
B. B. of Env. Evaluation and Risk Assmnt.	(609) 633-6801 3-1353	Anne Deccio Vincent DiGrigorio	7/18/88	?	no - dupl of Eval
C. Site Management	(609) 984-2900				
D. Other	_____				
Other N.J. DEP					
A. ORS (DEP Attorneys)	(609) 292-5697				
B. Div. of Law (Att. Gen. Office)	(609) 984-3900				
C. Office of Science and Research	(609) 984-6070				
D. Div. of Fish & Game	_____				
E. Right to Know	(609) 292-6714				
F. Off. of Env. Anal. (aerial photos)	(609) 292-8206				
F. Other	_____				
N.J. Dept. of Health	(609) 984-3400	Paul E from Wholesale Food	7/18/88	yes	no - updated state
N.J. State Library	(609) 292-6220				
U.S. EPA					
A. Surveilance and Monitoring Branch	(201) 321-6686				
B. Response and Prevention Branch	(201) 321-6658				
C. Other	_____				
Local Authorities					
A. Health Officer	(201) 873-2500	Vincent Agiuho	11/30 5/10/88		
B. Tax Assessor or Town Clerk	_____				
C. Other (Fire, Police, Public Works, etc..)	_____				
Other Agency	_____				